## C.2 SOIL DATA

### **C.2.1 Silty Loam Soil Properties**

Saturated Hydraulic Conductivity =  $5 \times 10^{-4}$  cm/s

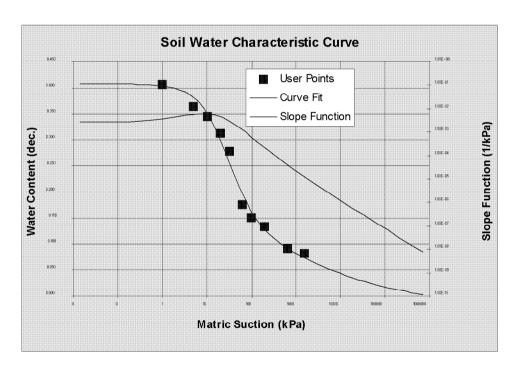
Porosity = 44.1%

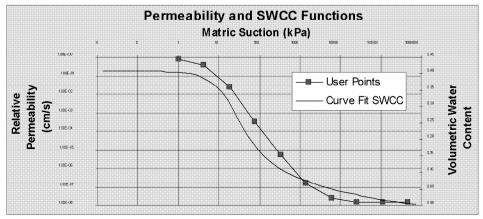
Curve Fit Parameters (Fredlund and Xing)

$$a = 15.84$$

$$n = 1.41$$

$$m = 0.88$$





# C.2.2 Silty Loam Water Storage Capacity

Storage Capacity = (Porosity-Residual) Soil Thickness

StorageCapacity = (0.441 - 0.083)2m

StorageCapacity = 0.716m

#### C.2.3 Fine Sand Soil Properties

Saturated Hydraulic Conductivity =  $1 \times 10^{-3}$  cm/s

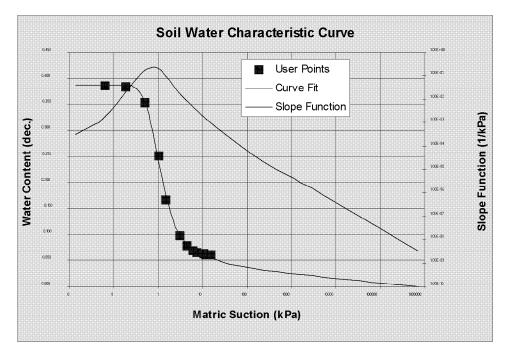
Porosity = 38.7%

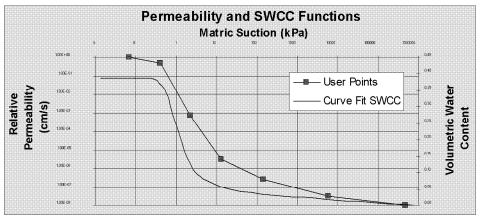
Curve Fit Parameters (Fredlund and Xing)

$$a = 1.73$$

$$n = 3.45$$

$$m = 0.84$$





#### C.2.4 Coarse Sand Soil Properties

Saturated Hydraulic Conductivity =  $1 \times 10^{-2}$  cm/s

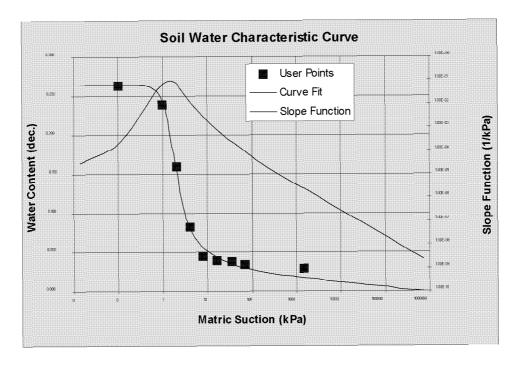
Porosity = 26.5%

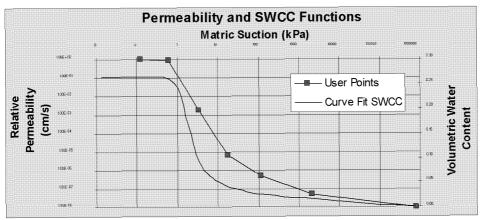
Curve Fit Parameters (Fredlund and Xing)

$$a = 1.36$$

$$n = 3.88$$

$$m = 0.80$$





#### **C.2.5** Cobble Soil Properties

Saturated Hydraulic Conductivity =  $1 \times 10^{-1}$  cm/s

Porosity = 26.5%

Curve Fit Parameters (Fredlund and Xing)

a = 0.17

n = 4.06

m = 1.35

